



DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
WASHINGTON, D.C. 20350

IN REPLY REFER TO  
OPNAVINST 4442.1E  
OP-412C  
25 MAY 1973

OPNAV INSTRUCTION 4442.1E

From: Chief of Naval Operations

Subj: Stowage space requirements for new construction  
and major conversions of ships

1. Purpose. To set forth criteria governing shipboard stowage space requirements for supply support material.
2. Cancellation. This instruction supersedes OPNAV Instruction 4442.1D of 4 April 1966.
3. Scope. The stowage space requirements expressed in this directive apply for spaces to store repair parts, consumables, provisions, ship's store stock and medical supplies required for self support. They do not apply for bulk fuel and ammunition stowage spaces.

4. Policy

a. The following are the goals, stated in days' endurance for wartime complements and combat consumption rates, for stowage space requirements for supply support material in new construction and major conversion of ships entering the preliminary design phase subsequent to 1 June 1966. (Ships which have stowage capacity in excess of these criteria may be authorized to maintain non-repair part material at their maximum stowage capacity, at the discretion of the Fleet Commander in Chief.)

(R)

MINIMUM DAYS' ENDURANCE 1/

<u>Ship Types</u>	<u>Repair Parts and Equipment Related Consumables</u>	<u>Other Consumables, Ship's Store Stock, Provisions and Medical</u>
Carriers	90	75
Cruisers/DLGN/DLG	90	60
DDG/DEG/DD/DE	90	45
AD/AR/AS	90	90
Submarines	90	90
Amphibious:		
Ship's complement	90	75
Embarked troops	N/A	60

(R)

<u>Ship Types</u>	<u>Repair Parts and Equipment Related Consumables</u>	<u>Other Consumables, Ship's Store Stock, Provisions and Medical</u>
Service Force	90	75
Non-self-sustaining <u>2/</u>	As required to accomplish assigned mission	

1/ Although these are the desired minimum levels of endurance, constraining factors influencing space requirements and stockage objectives may be overriding. In such cases the reduced stowage space requirement will be as specified in the new construction ship's Top Level Requirements/Top Level Specification (formerly ship's characteristics instruction).

2/ Landing craft, patrol gunboats, etc., of less than 1000 tons displacement.

b. Other ship types not specifically listed in paragraph 4a above whose missions routinely require extended deployments and which normally are not supported by the Mobile Logistic Support Force shall have stowage space sufficient to provide the requisite days' endurance to accomplish assigned missions.

R) c. The endurance for provisions is an overall requirement for stowage of all categories of subsistence (dry, frozen and chill). Space needed for individual categories will be provided to meet this overall objective. Chilled stowage space shall be adequate for 30 days and shall be convertible to freeze. The utilization of chill space for freeze is to accommodate for contingencies.

R) d. Allowances of repair parts and other directly supporting material will be maintained in accordance with the drawer-bin stowage concept, insofar as practicable.

R) e. The days' endurance stated for ship types represents the stockage objective (i.e., the sum of the operating and safety levels of stock) which is the maximum quantity of material to be maintained on hand to sustain current operations. The size of shipboard storerooms for designated categories of material will be adequate to stow this maximum quantity of material. Average endurance level (i.e., the safety level plus one-half the operating level) is the average quantity of material normally required to be on hand to sustain operations for a stated period without augmentation. Average endurance level in terms of days of supply is used for the purpose of operational planning rather than determination of stowage space requirements.

5. Action. The Chief of Naval Material will coordinate the development of stowage space requirements prescribed herein and will provide two copies of implementing directives to CNO (OP-412).



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